

United States Patent and Trademark Office

Un

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/714,730	· 11/17/2003	King-Hwa Lee	OIC0078US	4654	
60975 CSA LLP	7590 02/06/200	77	EXAM	EXAMINER	
4807 SPICEW	OOD SPRINGS RD.		TANK, A	NDREW L	
BLDG. 4, SUI AUSTIN, TX			ART UNIT PAPER NUMBER		
,			2109		
SHORTENED STATUTO	RY PERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE	
	ONTHS	02/06/2007		PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/714,730	LEE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Andrew Tank	2109				
The MAILING DATE of this communication ap	pears on the cover sheet with	the correspondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING ID. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC, 136(a). In no event, however, may a rep I will apply and will expire SIX (6) MONTI te, cause the application to become ABA	ATION. ly be timely filed IS from the mailing date of this communication NDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 171	November 2003.					
and the state of t	s action is non-final.					
3) Since this application is in condition for allows						
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-31</u> is/are pending in the application	n.					
4a) Of the above claim(s) is/are withdra						
5) Claim(s) is/are allowed.	,					
6)⊠ Claim(s) <u>1-31</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/	or election requirement.					
Application Papers						
9)⊠ The specification is objected to by the Examin	er.					
10)⊠ The drawing(s) filed on <u>17 November 2003</u> is/		objected to by the Examiner.				
Applicant may not request that any objection to the	e drawing(s) be held in abeyand	e. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the corre	ction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the E	Examiner. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. §	119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:		•				
 Certified copies of the priority documer 	nts have been received.					
Certified copies of the priority documer	nts have been received in Ap	plication No				
Copies of the certified copies of the pri		eceived in this National Stage				
application from the International Bure						
* See the attached detailed Office action for a lis	st of the certified copies not r	eceived.				
Attachment(s)						
1) Notice of References Cited (PTO-892)		ımmary (PTO-413) /Mail Date	•			
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 	5) 🔲 Notice of Int	ormal Patent Application				
Paper No(s)/Mail Date	6) Other:	<u>.</u> .				

DETAILED ACTION

1. This action is in response to the original filing of November 17, 2003. Claims 1-31 are pending and have been considered below.

Specification

2. The disclosure is objected to because of the following informalities: "Summary of the Invention" section is missing. It seems that paragraphs [0010]-[0015] were meant to satisfy this section, but were mislabeled.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 4. Claims 6 and 30 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Applicant claims a limitation of the request including a "SWEExclude" argument. This "SWEExclude" argument is not shown or demonstrated any where in the present disclosure and is therefore not enabled by the specification. For the sake of the present prosecution, the examiner will consider any named argument to be valid.

5. Claim 10 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Applicant claims a limitation of the request including a "SWEXsIStyleSheet" argument. This "SWEXsIStyleSheet" argument is not shown or demonstrated any where in the present disclosure and is therefore not enabled by the specification. For the sake of the present prosecution, the examiner will consider any named argument to be valid.

- 6. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 7. Claim 22 recites the limitation "the information element" in line 2. There is insufficient antecedent basis for this limitation in the claim. The examiner will interpret this as "the argument elements" for the sake of the present prosecution.

Claim Rejections - 35 USC § 102

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 8. Claims 1-2, 5-6, 8, 10, 25, 26, and 29-30 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent 5,831,609 (London et al.).
 - <u>Claim 1</u>: <u>London et al.</u> disclose a method in a server system for providing application information, the method compromising:

Art Unit: 2109

receiving a request (col 3 lines 31-49 "network") to execute a command of a business application (col 4 lines 48-53) along with an indication of user interface elements to return (col 4 lines 55-67);

executing the command of the business application to generate data elements (col 4 lines 53-54);

generating the user interface elements to be returned (col 5 lines 22-31); and sending a response that includes the generated user interface elements and generated data elements (col 5 lines 29-31).

<u>Claim 2</u>: <u>London et al.</u> disclose a method as in claim 1 above, wherein the request indicates a type of user interface element to return (col 4 lines 5-6).

Claim 5: London et al. disclose a method as in claim 1 above, wherein the request includes a "SWEDataOnly" argument, that is, when this argument is TRUE only data elements are returned and when this argument is FALSE both data and user interface elements are returned (col 5 lines 40-60).

<u>Claim 6</u>: <u>London et al.</u> disclose a method as in claim 1 above, wherein the request includes a "SWEExclude" argument (col 5 lines 40-60).

<u>Claim 8</u>: <u>London et al.</u> disclose a method in a server system for providing application information, the method compromising:

providing transforms for transforming output of the business application, each transform having a name (col 7 lines 16-30);

Art Unit: 2109

receiving from a client system a request to execute a command of an application (col 4 lines 48-53), the request optionally indicating the name of a transform to be applied to the output of the application (col 7 lines 16-30); executing the command of the application to generate output (col 5 lines 22-31); when the request indicates the name of a transform,

applying the provided transform with the indicated name to the generated output to generate transformed output (col 7 lines 10-30); and when the request does not indicate the name of a transform, sending to the client system the generated output (col 7 lines 10-30).

Claim 10: London et al. disclose a method as in claim 8 above, wherein the request includes a "SWEXslStyleSheet" argument (col 5 lines 40-60).

<u>Claim 25</u>: <u>London et al.</u> disclose a method in a server system for providing application information, the method comprising:

receiving from a client system a request (col 3 lines 31-49 "network") to execute a command of an application (col 4 lines 48-53), the request indicating what user interface elements to return along with the data elements as results of the execution (col 4 lines 53-67);

executing the command of the application to generate the data elements (col 4 lines 53-54);

when the request indicates to return some user interface elements, generating the user interface elements to be returned and sending to the client system a

Art Unit: 2109

response that includes the generated user interface elements and the generated data elements (col 5 lines 22-31, col 5 lines 40-60); and when the request indicates to not return user interface elements, sending to the client system a response that includes the generated data elements without user interface elements (col 5 lines 22-31, col 5 lines 40-60).

Claim 26: London et al. disclose a method as in claim 25 above, wherein the request indicates a type of user interface element to return (col 4 lines 5-6).

<u>Claim 29</u>: London et al. disclose a method as in claim 25 above, wherein the request includes a "SWEDataOnly" argument, that is, when this argument is TRUE only data elements are returned and when this argument is FALSE both data and user interface elements are returned (col 5 lines 40-60).

<u>Claim 30</u>: <u>London et al.</u> disclose a method as in claim 1 above, wherein the request includes a "SWEExclude" argument (col 5 lines 40-60).

- 9. Claim 20 is rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent 5,761,673 (Bookman et al.).
 - Claim 20: Bookman et al. disclose a computer-readable medium containing a data structure defining an inbound command to a web server, the data structure comprising: an execute element having a path attribute indicating a location of an object manager;
 - a command element nested within the execute element and having a value attribute indicating a name of a command to execute;

Art Unit: 2109

one or more argument elements nested within the command element, each argument element having a name attribute indicating a name of an argument for the named command, the one or more argument elements being from a set of argument elements including an argument element for indicating a response markup format, an argument element for indicating whether the response should include user interface elements, and an arguments element identifying a transform to be applied to output (col 3 lines 61-67, col 4 lines 1-12).

Claim Rejections - 35 USC § 103

- 10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 11. Claims 3-4, 7, 9, 11-19, 27-28, and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 5,831,609 (London et al.).
 - Claim 3: London et al. disclose a method as in claim 1 above, but do not specifically disclose that the request indicates a type of user interface element to not return.

 However, London et al. do disclose the request indicating a type of user interface element to return (col 4 lines 5-6). Therefore, it would have been obvious to one of ordinary skill in the art at the time the present invention was made that if one could return types of elements, one could also not return those elements. One would have been

Art Unit: 2109

motivated to not return these elements in order to provide the server system with only specific elements, thereby limiting the amount of processes required and raising the efficiency of the processor.

Claim 4: London et al. disclose a method as in claim 3 above, but do not specifically disclose that the type of user interface element to not return is navigation data. However, one of ordinary skill in the art at the time the present invention was made would know that user interface elements of typical applications include menu bars, toolbars, backgrounds, colors, forms, shapes, navigational information, etc. Therefore, it would have been obvious one of ordinary skill in the art at the time the present invention was made to not return one of these elements. One would have been motivated to not return these elements in order to provide the server system with only specific elements, thereby limiting the amount of processes required and raising the efficiency of the processor. Claim 7: London et al. disclose a method as in claim 1 above, but do not specifically disclose that the request is to execute a predefined query that was identified to the client system when a request for a list of predefined queries were received from the client system. However, London et al. do disclose the use of "MICROSOFT EXCEL" (col 2 line 62). One of ordinary skill in the art at the time the present invention was made would know that "MICROSOFT EXCEL" is a common database program allowing for search queries and query lists. Therefore, it would have been obvious to one of ordinary skill in the art at the time the present invention was made to execute a predefined query identified through a list of predefined queries contained and executed by "MICROSOFT

Art Unit: 2109

EXCEL". One would have been motivated to do this to allow a remote user access to a host application (col 1 lines 46-50).

Claim 9: London et al. disclose a method as in claim 8 above, but do not specifically disclose that the generated output is in XML format and the provided transforms are XSLT stylesheets. However, London et al. do disclose the use of the X-Protocol to generate an output. One of ordinary skill in the art at the time the present invention was made would know to that what is written one programming language can also be written in another programming language such as C, C++, HTML, JavaScript, X-Protocol, XML, WML, etc. Therefore, it would have been obvious to one of ordinary skill in the art at the time the present invention was made to generate the output in XML format, and to specify the presentation of a class of XML documents using XSLT stylesheets. One would have been motivated to do this in order to have a result more compatible with webbased applications.

<u>Claims 11 and 12</u>: <u>London et al.</u> method in a server system for providing information relating to a business application, the method comprising:

providing a default format for output of the business application (col 6 lines 63-65);

receiving from a client system a request to execute a command of a business application (col 4 lines 48-53), the request optionally indicating a user agent format or a client-specified format for the output of the business application (col 6 lines 56-58);

Art Unit: 2109

executing the command of the business application to generate output (col 5 lines 22-31); and

sending to the client system the generated output in the selected format (col 5 lines 22-31).

However, London et al. do not specifically disclose selecting a format giving preference in the following order: the client-specified format, the user-agent format, and the default format. London et al. do disclose the use of a default window (col 6 lines 62-63) and the use of a handle identifying the window the application program wishes to display (lines 53-59). Therefore, it would have been obvious to one of ordinary skill in the art at the time the present invention was made that a default window that is then modified to some inputs gathered from the client would display the modified windows first, the default windows if no modifications are present. It can be further gathered that one of ordinary skill in the art at the time the present invention was made would deem it obvious that a certain set of client inputs could also be gathered from the user, thereby setting up some sort of user-based window selection. One would be motivated to allow user and client specified displays to display over the default in order to provide the user with more accurate information.

Claim 13: London et al. disclose the method as in claim 11 above, and further disclose the user-agent format being based on a type of user agent specified in the request (col 2 lines 60-64).

<u>Claim 14</u>: <u>London et al.</u> disclose the method as in claim 13 above, but do not specifically disclose that the type of user agent specified is a type of browser. However, <u>London et</u>

Art Unit: 2109

al. disclose the host application that the user wishes to use being "MICROSOFT EXCEL" or "WORD FOR WINDOWS" (col 2 lines 60-64). Therefore, it would have been obvious to one of ordinary skill in the art at the time the present invention was made that London et al.'s list of host applications could be expanded to include programs such as "MICROSOFT POWERPOINT" or "MICROSOFT INTERNET EXPLORER", the later being a web browser. One would be motivated to include these in order to provide the remote user with more options for applications to run in their native GUI system. Claim 15: London et al. disclose the method as in claim 11 above, but do not specifically disclose the formats being a markup language. However, London et al. do disclose the use of the X-Protocol to generate an output (col 5 line 25-26). One of ordinary skill in the art at the time the present invention was made would know that what is written one programming language can also be written in another programming language such as C, C++, HTML, JavaScript, X-Protocol, XML, WML, etc. One would have been motivated to use a markup language in order to have a result more compatible with web-based applications.

Claims 16-18: London et al. disclose the method as in claim 15 above, but do not specifically disclose the formats being a markup language such as HTML, XML, or WML. However, London et al. do disclose the use of the X-Protocol to generate an output (col 5 line 25-26). One of ordinary skill in the art at the time the present invention was made would know that what is written one programming language can also be written in another programming language such as C, C++, HTML, JavaScript, X-

Art Unit: 2109

Protocol, XML, WML, etc. One would have been motivated to use a markup language in order to have a result more compatible with web-based applications.

Claim 19: London et al. disclose the method as in claim 11 above, but do not specifically disclose the request including a "SWESetMarkup" argument that specifies the clientspecified format as being XML, HTML, or WML. However, London et al. do disclose the use of the X-Protocol to generate an output (col 5 line 25-26) as well disclosing the host application that the client wishes to use being "MICROSOFT EXCEL" or "WORD FOR WINDOWS" (col 2 lines 60-64). One of ordinary skill in the art at the time the present invention was made would realize that London et al.'s list of host applications could be expanded to include programs such as "MICROSOFT POWERPOINT" or "MICROSOFT INTERNET EXPLORER", the later being a web browser. In the case of "MICROSOFT INTERNET EXPLORER" being the application the client wishes to use, it would have been obvious to one of ordinary skill in the art at the time of the present invention that the original programming could be written in a more web-friendly language such as HTML, XML, WML, or JavaScript. One would be motivated to do this in order to provide the client system with more selection in applications to use, as well as providing a result that is more compatible in the case of web-based applications. Claim 27: London et al. disclose a method as in claim 25 above, but do not specifically disclose the request indicating a type of user interface element to not return. However, London et al. do disclose the request indicating a type of user interface element to return (col 4 lines 5-6). Therefore, it would have been obvious to one of ordinary skill in the art at the time the present invention was made that if one could return types of elements, one

Art Unit: 2109

could also not return those elements. One would have been motivated to not return these elements in order to provide the server system with only specific elements, thereby limiting the amount of processes required and raising the efficiency of the processor. Claim 28: London et al. disclose a method as in claim 25 above, but do not specifically disclose that the type of user interface element to not return is navigation data. However, one of ordinary skill in the art at the time the present invention was made would know that user interface elements of typical applications include menu bars, toolbars, backgrounds, colors, forms, shapes, navigational information, etc. Therefore, it would have been obvious one of ordinary skill in the art at the time the present invention was made to not return one of these elements. One would have been motivated to not return these elements in order to provide the server system with only specific elements, thereby limiting the amount of processes required and raising the efficiency of the processor. Claim 31: London et al. disclose a method as in claim 25 above, but do not specifically disclose that the request is to execute a predefined query that was identified to the client system when a request for a list of predefined queries were received from the client system. However, London et al. do disclose the use of "MICROSOFT EXCEL" (col 2 line 62). One of ordinary skill in the art at the time the present invention was made would know that "MICROSOFT EXCEL" is a common database program allowing for search queries and query lists. Therefore, it would have been obvious to one of ordinary skill in the art at the time the present invention was made to execute a predefined query identified through a list of predefined queries contained and executed by "MICROSOFT

Art Unit: 2109

EXCEL". One would have been motivated to do this to allow a remote user access to a host application (col 1 lines 46-50).

12. Claims 21-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 5,761,673 (Bookman et al.).

Claim 21: **Bookman et al.** disclose a computer-readable medium as in claim 20 above, but do not specifically disclose that the data structure is an XML document. However, **Bookman et al.** do disclose the use of object requests from Web server executables (col 4 lines 2-3) and the use of HTML (col 4 lines 45-60). Therefore, it would have been obvious to one of ordinary skill in the art at the time the present invention was made that the data structure to be used in a Web based situation could also be written in XML, WML, HTML, JavaScript, CGI Script, etc. One would be motivated to write it in XML in order to benefit from a more database oriented programming language.

Claim 22: **Bookman et al.** disclose a computer-readable medium as in claim 20 above, and further disclose that zero or more occurrences of the argument elements are nested within the execute element. **Bookman et al.** disclose that one or more argument elements are nested within the command element and that the command element is nested within the execute element, therefore, the argument elements, when they do occur (one or more), are nested within the execute element and, when they do not occur (zero), occur nowhere (col 3 lines 61-67, col 4 lines 1-12).

Claim 23: **Bookman et al.** disclose a computer-readable medium as in claim 20 above, but do not specifically disclose that only one command element is nested within the execute element. However, **Bookman et al.** do disclose a command element nested

Art Unit: 2109

within the execute element (col 3 lines 61-67, col 4 lines 1-12). Therefore, it would have been obvious to one of ordinary skill in the art at the time the present invention was made to include only one command element within the execute element. One would have been motivated to only include one command element when only one command element was needed, in order to save processing time and increase the efficiency and speed with which the processor operates.

Claim 24: **Bookman et al.** disclose a computer-readable medium containing a data structure defining an outbound response sent by a web server, the data structure comprising:

an application element having a name attribute (col 1 lines 44-51); and a navigation element nested within the application element, having a name attribute (col 1 lines 44-51).

However, <u>Bookman et al.</u> do not specifically disclose that the navigation element has sub-elements from a set including a menu element, tool bar element, screen bar element, thread bar element, view bar element, and page item element. <u>Bookman et al.</u> do disclose "Web browsers" (col 1 lines 36-44). It would have been obvious to one of ordinary skill in the art at the time the present invention was made that "Web browsers" include: menus, tool bars, screen bars, view bars, etc. One would have been motivated to disclose the navigation element having these standard browser sub-elements in order to allow the user greater flexibility in the browser they chose to use.

Also, <u>Bookman et al.</u> do not specifically disclose one or more elements from the set of elements including a screen element, an applet element, a form element, and a predefined

Application/Control Number: 10/714,730 Page 16

Art Unit: 2109

query bar element, the one or more elements being nested within the application element and each having a name attribute. However, <u>Bookman et al.</u> do disclose Web browsers requesting particular hypermedia documents (col 1 lines 45-67, col 2 lines 1-8).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the

present invention was made to allow applet scripts, forms, and URL queries to be nested within the web browser. One would have been motivated to do this in order to provide dynamic hypermedia to an end-user, thereby increasing the user interactivity.

Conclusion

- 13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - a. U.S. Patent 6,941,520 Lewallen "Method, system, and program for using a user interface program to generate a user interface for an application program"
 - b. U.S. Patent 6,915,486 Li et al. "Customizing a graphical user interface of a host application"
 - c. U.S. Patent 6,342,905 Diedrich et al. "Object oriented apparatus and method for providing a graphical user interface for host-based software applications"
 - d. U.S. PGPUB 2002/0029296 Anuff et al. "Portal server that provides a customizable user interface for access to computer networks"
 - e. U.S. Patent 6,631,512 Onyeabor "Method and system for database-driven, scalable web page development, deployment-download, and execution"

Art Unit: 2109

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Tank whose telephone number is 571-270-1692. The examiner can normally be reached on Mon - Fri (Alt. Fri Off) 0730-1500 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Myhre can be reached on 571-270-1065. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ALT February 1, 2007

James W. Myhre

Supervisory Primary Examiner

Page 17